



PATENT
Attorney Docket No.: SSI-00501

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:) Group Art Unit: 1763
Maximilian A. Biberger et al.) Examiner: Ram N. Kackar
Serial No.: 09/912,844) **TRANSMITTAL LETTER**
Filed: July 24, 2001) 162 N. Wolfe Road
For: **HIGH PRESSURE PROCESSING**) Sunnyvale, CA 94086
CHAMBER FOR) (408) 530-9700
SEMICONDUCTOR SUBSTRATE) Customer No.: 28960

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313

Sir:

Enclosed please find a Supplemental Information Disclosure Statement and Form PTO-1449, including copies of the references contained thereon, for filing in the U.S. Patent and Trademark Office.

You will also find enclosed the associated Transmittals, Electronic Information Disclosure Statements, and United States Patent and Trademark Office Acknowledgment Receipts for the electronically filed Information Disclosure Statement (EFS ID #49914); (EFS ID #49915); (EFS ID#49916); and (EFS ID#49917) filed on October 29, 2003.

The Commissioner is hereby authorized to charge any additional fee or credit overpayment to our Deposit Account No. 08-1275. **An originally executed duplicate of this transmittal is enclosed for this purpose.**

Respectfully submitted,
HAVERSTOCK & OWENS LLP

Dated: 10/29/03

By: Thomas B. Haverstock
Thomas B. Haverstock
Reg. No.: 32,571

Attorneys for Applicants

CERTIFICATE OF MAILING (37 CFR § 1.9(e))
I hereby certify that the paper (along with any referred to as being attached or enclosed) is being deposited with the U.S. Postal Service on the date shown below with sufficient postage as first class mail in an envelope addressed to the:
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Alexandria, VA 22313-0450

HAVERSTOCK & OWENS LLP
Date: 10-29-03 By: John D. Rutter



Attorney Docket No.: PATENT
SSI-00501

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:)	Group Art Unit: 1763
Maximilian A. Biberger et al.)	Examiner: Ram N. Kackar
Serial No.: 09/912,844)	<u>SUPPLEMENTAL INFORMATION</u>
Filed: July 24, 2001)	<u>DISCLOSURE STATEMENT</u>
For: HIGH PRESSURE PROCESSING)	162 N. Wolfe Road
CHAMBER FOR)	Sunnyvale, CA 94086
SEMICONDUCTOR SUBSTRATE)	(408) 530-9700

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313

Sir:

The citations listed below, copies attached, may be material to the examination of the above-identified application, and are therefore submitted in compliance with the duty of disclosure defined in 37 C.F.R. §§ 1.56 and 1.97. The Examiner is requested to make these citations of official record in this application.

United States Patents or Published Patent Applications have been filed electronically (EFS ID #49914); (EFS ID #49915); (EFS ID#49916); and (EFS ID#49917). Applicants have become aware of the following printed publication which may be material to the examination of this application:

- Chinese Publication No. CN 1399790 A;
- German Publication No. DE 36 08 783 A1;
- German Publication No. DE 198 60 084 A1;
- European Publication No. EP 0 244 951 A2;
- European Publication No. EP 0 272 141 A2;
- European Publication No. EP 0 453 867 A1;
- European Publication No. EP 0 572 913 A1;
- European Publication No. EP 0 587 168 A1;
- European Publication No. EP 0 679 753 B1;
- European Publication No. EP 0 903 775 A2;

- French Publication No. FR 1 499 491;
- Great Britain Publication No. GB 2 003 975;
 - Great Britain Publication No. GB 2 193 482;
 - Japanese Patent Abstract JP 2-148841;
 - Japanese Patent Abstract JP 2-209729;
 - Japanese Patent Abstract JP 11-200035;
 - Japanese Patent Abstract JP 56-142629;
 - Japanese Patent Abstract JP 60-238479;
 - Japanese Patent Abstract JP 60-246635;
 - Japanese Patent Abstract JP 61-231166;
 - Japanese Patent Abstract JP 62-125619;
 - Japanese Patent Abstract JP 63-303059;
 - Swiss Publication No. SE 251213;
 - PCT Publication No. WO 87/07309;
 - PCT Publication No. WO 00/36635;
 - PCT Publication No. WO 01/55628 A1;
 - PCT Publication No. WO 01/68279 A2;
 - PCT Publication No. WO 01/74538 A1;
 - PCT Publication No. WO 01/85391 A2;
 - PCT Publication No. WO 01/94782 A3;
 - PCT Publication No. WO 02/16051 A2;
 - PCT Publication No. WO 03/030219 A2;
 - Hideaki Itakura et al., "Multi-Chamber Dry Etching System", Solid State Technology, April 1982, pp. 209-214;
 - Sun, Y.P. et al., "Preparation of Polymer-Protected Semiconductor Nanoparticles Through the Rapid Expansion of Supercritical Fluid Solution," Chemical Physics Letters, pp. 585-588, May 22, 1998;
 - Dahmen, N. et al., "Supercritical Fluid Extraction of Grinding and Metal Cutting Waste Contaminated with Oils," Supercritical Fluids - Extraction and Pollution Prevention, ACS Symposium Series, Vol. 670, pp. 270-279, 21 Oct 1997;
 - Xu, C. et al., "Submicron-Sized Spherical Yttrium Oxide Based Phosphors Prepared by Supercritical CO₂-Assisted aerosolization and pyrolysis," Appl. Phys. Lett., Vol. 71, No.12, September 22, 1997, pp. 1643-1645;

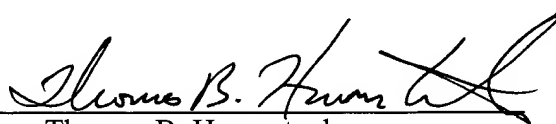
Courtecuisse, V.G. et al., "Kinetics of the Titanium Isopropoxide Decomposition in Supercritical Isopropyl Alcohol," Ind. Eng. Chem. Res., Vol. 35, No. 8, pp. 2539-2545, Aug 1996;

- Gallagher-Wetmore, P. et al., "Supercritical Fluid Processing: A New Dry Technique for Photoresist Developing," SPIE Vol. 2438, pp.694-708, Jun. 1995.
- Purtell, R, et al., "Precision Parts Cleaning using Supercritical Fluids," J. Vac, Sci, Technol. A. Vol. 11, No. 4, July 1993, pp. 1696-1701;
- Matson, D.W. et al., "Rapid Expansion of Supercritical Fluid Solutions: Solute Formation of Powders, Thin Films, and Fibers," Ind. Eng. Chem. Res., Vol. 26, No. 11, pp. 2298-2306, 1987;
- Tolley, W.K. et al., "Stripping Organics from Metal and Mineral Surfaces using Supercritical Fluids," Separation Science and Technology, Vol. 22, pp. 1087-1101, 1987;
- Joseph L. Foszcz, "Diaphragm Pumps Eliminate Seal Problems", Plant Engineering , pp. 1-5, February 1, 1996; and
- Bob Agnew, "WILDEN Air-Operated Diaphragm Pumps", Process & Industrial Training Technologies, Inc., 1996.

This Supplemental Information Disclosure Statement under 37 C.F.R. §§ 1.56 and 1.97 is not to be construed as a representation that a search has been made, that additional information material to the examination of this application does not exist, or that anyone or more of these citations constitutes prior art.

Respectfully submitted,
HAVERSTOCK & OWENS LLP

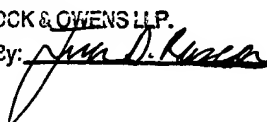
Dated: 10-29-03

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Reg. No.: 32,571

Attorneys for Applicants

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Date: 10-29-03 By: 

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(Modified)

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U.S. Department of Commerce
Patent and Trademark Office

Attorney Docket No.: SSI-00501

Serial No.: 09/912,844

INFORMATIONAL DISCLOSURE STATEMENT BY APPLICANT

(Use Several Sheets If Necessary)

Applicants: Maximilian A. Biberger et al.

(37 CFR § 1.98(b))

Filing Date: July 24, 2001

Group Art Unit: 1763

FOREIGN PATENTS OR PUBLISHED FOREIGN PATENT APPLICATIONS

		Document Number	Publication Date	Country / Patent Office	Class	Subclass	Translation	
							Yes	No
	AA	CN 1399790 A	02/26/03	China	H01L	21/00		X
	AB	DE 36 08 783 A1	09/17/87	Germany	C30B	25/12		X
	AC	DE 198 60 084 A1	07/06/00	Germany	H01L	21/3213		X
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	AJ	EP 0 903 775 A2	03/24/99	EPO	H01L	21/00		X
	AK	FR 1.499.491	09/18/67	France	F16K			X
	AL	GB 2 003 975	03/21/79	Great Britain	F04B	43/06		X
	AM	GB 2 193 482	02/10/88	Great Britain	B25J	18/02		X
	AN	JP 2-148841	06/07/90	Japan	H01L	21/306		X
	AO	JP 2-209729	8/21/90	Japan	H01L	21/302		X
	AP	JP 11-200035	07/27/99	Japan	C23C	14/34		X
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	AS	JP 60-246635	12/06/85	Japan	H01L	21/302		X
	AT	JP 61-231166	10/15/86	Japan	C23C	14/24		X
	AU	JP 62-125619	06/06/87	Japan	H01L	21/30		X
	AV	JP 63-303059	12/09/88	Japan	C23C	14/22		X
	AW	SE 251213	08/16/48	Swiss	100a			X
	AX	WO 87/07309	12/03/87	PCT	C23C	16/00		X
	AY	WO 00/36635	06/22/00	PCT	H01L	21/00		X
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	BB	WO 01/74538 A1	10/11/01	PCT	B24C	1/00		X
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	BD	WO 01/94782 A3	12/13/01	PCT	F04B	43/02		X
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Examiner:

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Attorney Docket No.: SSI-00501

Serial No.: 09/912,844

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Filing Date: July 24, 2001

Group Art Unit: 1763

(37 CFR § 1.98(h))

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							Yes	No
	BJ							
	BK							
	BL							
	BM							
	BN							
	BO							

OTHER DOCUMENTS (Including Author, Title, Date, Relevant Pages, Place of Publication)

	BP	Hideaki Itakura et al., "Multi-Chamber Dry Etching System", Solid State Technology, April 1982, pp. 209-214.
	BQ	Sun, Y.P. et al., "Preparation of Polymer-Protected Semiconductor Nanoparticles Through the Rapid Expansion of Supercritical Fluid Solution," Chemical Physics Letters, pp. 585-588, May 22, 1998.
	BR	Dahmen, N. et al., "Supercritical Fluid Extraction of Grinding and Metal Cutting Waste Contaminated with Oils," Supercritical Fluids - Extraction and Pollution Prevention, ACS Symposium Series, Vol. 670, pp. 270-279, 21 Oct 1997.
	BS	Xu, C. et al., "Submicron-Sized Spherical Yttrium Oxide Based Phosphors Prepared by Supercritical CO ₂ -Assisted aerosolization and pyrolysis," Appl. Phys. Lett., Vol. 71, No.12, September 22, 1997, pp. 1643-1645.
	BT	Courtecuisse, V.G. et al., "Kinetics of the Titanium Isopropoxide Decomposition in Supercritical Isopropyl Alcohol," Ind. Eng. Chem. Res., Vol. 35, No. 8, pp. 2539-2545, Aug 1996.
	BU	Gallagher-Wetmore, P. et al., "Supercritical Fluid Processing: A New Dry Technique for Photoresist Developing," SPIE Vol. 2438, pp.694-708, Jun. 1995.
	BV	Purtell, R. et al., "Precision Parts Cleaning using Supercritical Fluids," J. Vac. Sci. Technol. A. Vol. 11, No. 4, July 1993, pp. 1696-1701.
	BW	Matson, D.W. et al., "Rapid Expansion of Supercritical Fluid Solutions: Solute Formation of Powders, Thin Films, and Fibers," Ind. Eng. Chem. Res., Vol. 26, No. 11, pp. 2298-2306, 1987.
	BX	Tolley, W.K. et al., "Stripping Organics from Metal and Mineral Surfaces using Supercritical Fluids," Separation Science and Technology, Vol. 22, pp. 1087-1101, 1987.
	BY	Joseph L. Foszcz, "Diaphragm Pumps Eliminate Seal Problems", Plant Engineering, pp. 1-5, February 1, 1996.
	BZ	Bob Agnew, "WILDEN Air-Operated Diaphragm Pumps", Process & Industrial Training Technologies, Inc., 1996.
	CA	
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Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FEE TRANSMITTAL

Electronic Version v08

Stylesheet Version v08.0

Title of Invention	HIGH PRESSURE PROCESSING CHAMBER FOR SEMICONDUCTOR SUBSTRATE		
Application Number:	09/912844	*09/912844*	
Date:	2001-07-24		
First Named Applicant:	Maximilian A. Biberger		
Attorney Docket Number:			
TOTAL FEE AUTHORIZED \$180			
Patent fees are subject to annual revisions on or about October 1st of each year.			
BASIC FILING FEE			
Fee Description		Fee Code	Amount \$
Submission Of Information Disclosure Stmt Fee		1806	180
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Fee transmittal

Page 2 of 2

Access Code	****
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Deposit authorized name:	Thomas B. Haverstock
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Date (YYYYMMDD):	2003-10-29
Charge Any Additional Fee Required Under 37 C.F.R. Sections 1.16 and 1.17.	

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ACKNOWLEDGEMENT RECEIPT**

Electronic Version 1.1

Stylesheet Version v1.1.1

Title of Invention	HIGH PRESSURE PROCESSING CHAMBER FOR SEMICONDUCTOR SUBSTRATE										
Submission Type:	Information Disclosure Statement										
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EFS ID:	49914										
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First Named Applicant:	Maximilian Biberger										
Attorney Docket Number:											
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TRANSMITTAL

Electronic Version v1.1
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Title of Invention	HIGH PRESSURE PROCESSING CHAMBER FOR SEMICONDUCTOR SUBSTRATE		
Application Number:	09/912844	*09/912844*	
Date:	2001-07-24		
First Named Applicant:	Maximilian A. Biberger		
Confirmation Number:	5915		
Attorney Docket Number:			
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Submitted by:		Elec. Sign.	Sign. Capacity
Thomas B. Haverstock		/tbh/	Attorney
Registered Number: 32571			

Documents being submitted	Files
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ELECTRONIC INFORMATION DISCLOSURE STATEMENT

Electronic Version v18

Stylesheet Version v18.0

Title of Invention	HIGH PRESSURE PROCESSING CHAMBER FOR SEMICONDUCTOR SUBSTRATE						
Application Number:	09/912844 *09/912844*						
Confirmation Number:	5915						
First Named Applicant:	Maximilian Biberger						
Attorney Docket Number:							
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US Patent Documents							
Note: Applicant is not required to submit a paper copy of cited US Patent Documents							
Init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass
	1	2617719	1952-11-11	C. R. Stewart			
	2	2625886	1953-01-20	Browne			
	3	3744660	1973-07-10	Gaines et al.			
	4	3968885	1976-07-13	Hassan et al.			
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	7	4245154	1981-01-13	Uehara et al.			

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23	4778356	1988-10-18	Hicks
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25	4823976	1989-04-25	White, III et al.
26	4825808	1989-05-02	Takahashi et al.
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30	4879431	1989-11-07	Bertoncini
31	4917556	1990-04-17	Stark et al.
32	4924892	1990-05-15	Kiba et al.
33	4951601	1990-08-28	Maydan et al.
34	4960140	1990-10-02	Ishijima et al.
35	4983223	1991-01-08	Gessner
36	5011542	1991-04-30	Well
37	5044871	1991-09-03	Davis et al.
38	5062770	1991-11-05	Story et al.
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Init	Cite.No.	Patent No.	Date	Patentee
	40	5105556	1992-04-21	Kurokawa et al.
	41	5167716	1992-12-01	Boltnott et al.
	42	5169296	1992-12-08	Wilden
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	44	5186718	1993-02-16	Tepman et al.
	45	5188515	1993-02-23	Horn
	46	5190373	1993-03-02	Dickson et al.
	47	5191993	1993-03-09	Wanger et al.

Remarks

Note: Remarks are not for responding to an office action.

Non US Patent and Publication references shall be filed under a separate paper transmittal.
The current electronic filing contains part 1 out of a total of 4 electronic filings.

Signature

Examiner Name	Date

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Electronic Version 1.1

Stylesheet Version v1.1.1

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Submission Type:	Information Disclosure Statement										
Application Number:	09/912844	*09/912844*									
EFS ID:	49915										
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10/29/2003

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Application Number:	09/912844 *09/912844*						
Date:	2001-07-24						
First Named Applicant:	Maximilian A. Biberger						
Confirmation Number:	5915						
Attorney Docket Number:							
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<table border="1"><thead><tr><th>Submitted by:</th><th>Elec. Sign.</th><th>Sign. Capacity</th></tr></thead><tbody><tr><td>Thomas B. Haverstock Registered Number: 32571</td><td>/tbh/</td><td>Attorney</td></tr></tbody></table>		Submitted by:	Elec. Sign.	Sign. Capacity	Thomas B. Haverstock Registered Number: 32571	/tbh/	Attorney
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ELECTRONIC INFORMATION DISCLOSURE STATEMENT

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Stylesheet Version v18.0

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Application Number:	09/912844						
Confirmation Number:	5915						
First Named Applicant:	Maximilian Biberger						
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US Patent Documents							
Note: Applicant is not required to submit a paper copy of cited US Patent Documents							
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1	1	5193560	1993-03-16	Tanaka et al.			
2	2	5195878	1993-03-23	Sahliavo et al.			
3	3	5213485	1993-05-25	Wilden			
4	4	5221019	1993-06-22	Pechacek			
5	5	5222876	1993-06-29	Budde			
6	6	5224504	1993-07-06	Thompson et al.			
7	7	5236669	1993-08-17	Simmons et al.			
8	8	5240390	1993-08-31	Kvinge et al.			
9	9	5243821	1993-09-14	Schuck et al.			
10	10	5246500	1993-09-21	Samata et al.			

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Information Disclosure Statement

Page 3 of 3

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13	5285352	1994-02-08	Pastore et al.
14	5288333	1994-02-22	Tanaka et al.
15	5339844	1994-08-23	Stanford Jr. et al.
16	5370741	1994-12-06	Bergman
17	5412958	1995-05-09	Iliff et al.
18	5433334	1995-07-18	Reneau
19	5447294	1995-09-05	Sakata et al.
20	5503176	1996-04-02	Dunmire et al.
21	5505219	1996-04-09	Lansberry et al.
22	5509431	1996-04-23	Smith, Jr. et al.
23	5571330	1996-11-05	Kyogoku
24	5589224	1996-12-31	Tepman et al.
25	5621982	1997-04-22	Yamashita et al.
26	5629918	1997-05-13	Ho et al.
27	5644855	1997-07-08	McDermott et al.
28	5649809	1997-07-22	Stapelfeldt
29	5656097	1997-08-12	Olesen et al.
30	5669251	1997-09-23	Townsend et al.
31	5702228	1997-12-30	Tamai et al.
32	5706319	1998-01-06	Holtz
33	5746008	1998-05-05	Yamashita et al.

Remarks

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Electronic Version 1.1

Stylesheet Version v1.1.1

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Application Number:	09/912844 *09/912844*									
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Stylesheet Version v18.0

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Confirmation Number:	5915						
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*	1	5900107	1999-05-04	Murphy et al.			
	2	5904737	1999-05-18	Preston et al.			
	3	5932100	1999-08-03	Yager et al.			
	4	5934991	1999-08-10	Rush			
	5	5981399	1999-11-09	Kawamura et al.			
	6	5989342	1999-11-23	Ikeda et al.			
	7	6005226	1999-12-21	Aschner et al.			
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13	6077053	2000-06-20	Fujikawa et al.	
14	6082150	2000-07-04	Stucker	
15	6085935	2000-07-11	Malchow et al.	
16	6097015	2000-08-01	McCullough et al.	
17	6128830	2000-10-10	Bettcher et al.	
18	6145519	2000-11-14	Konishi et al.	
19	6159295	2000-12-12	Maskara et al.	
20	6164297	2000-12-26	Kamikawa	
21	6203582	2001-03-20	Berner et al.	B1
22	6216364	2001-04-17	Tanaka et al.	B1
23	6239038	2001-05-29	Wen	B1
24	6241825	2001-06-05	Wytman	B1
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28	6305677	2001-10-23	Lenz	B1
29	6334266	2002-01-01	Moritz et al.	B1
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34	6436824	2002-08-20	Chooi et al.	B1
35	6454945	2002-09-24	Weigl et al.	B1
36	6464790	2002-10-15	Shertinsky et al.	B1

Remarks

Note: Remarks are not for responding to an office action.

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ACKNOWLEDGEMENT RECEIPT**

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Application Number:	09/912844 *09/912844*									
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Maximilian A. Biberger	/tbh/	Attorney								
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ELECTRONIC INFORMATION DISCLOSURE STATEMENT

Electronic Version v1.8

Stylesheet Version v1.8.0

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Confirmation Number: 5915
First Named Applicant: Thomas Haverstock
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US Patent Documents

Note: Applicant is not required to submit a paper copy of cited US Patent Documents

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	1	6521466	2002-02-18	Castrucci	B1		
	2	6541278	2003-04-01	Morita et al.	B1		
	3	6546946	2003-04-15	Dunmire	B1		
	4	6550484	2003-04-22	Gopinath et al.	B1		
	5	6558475	2003-05-06	Jur et al.	B1		
	6	6561213	2003-05-13	Wang et al.	B1		
	7	6561220	2003-05-13	McCullough et al.	B1		
	8	6561481	2003-05-13	Filonczuk	B1		
	9	6561767	2003-05-13	Biberger et al.	B1		
	10	6564826	2003-05-20	Shen	B1		
	11	5217043	1993-06-08	Novakovi			

US Published Applications

Note: Applicant is not required to submit a paper copy of cited US Published Applications

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	1	20020001929	2002-01-03	Biberger et al.	A1		

Remarks

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